

ABSTRACT

Fluid composition containing ion exchange copolymer which is perfluorated with functional groups $-\text{SO}_3\text{M}$, where M is hydrogen ions or ions of alkali metals and a polar organic solvent or a mixture of a polar organic solvent and a non-polar solvent and, as perfluorated ion exchange copolymer, the composition contains a perfluorated ion exchange copolymer having a crystallinity grade from 2 to 10% and a ratio between the density of the indicated ion exchange copolymer and the density of the original perfluorated ion exchange copolymer of 1-35: polar organic solvent or mixture of polar organic solvent with non-polar solvent 65-99. Such compositions are used in the production and repair of ion exchange membranes (IEM) which are used in the alkaline electrolysis with chlorine or in the water electrolysis in fuel/gas separation cells.